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**Appendix C**  
**Construction Inspection Report**  
**South Plant Transmission Pipeline**  
**Phase I and Phase II**  
**Punch List**

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**Appendix C**  
**Construction Inspection Report**  
**South Plant Transmission Pipeline**  
**Phase I and Phase II**  
**Punch List**

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C.O. #8273 - USEPA Funded Newmark -  
Spec. 1267, South Plant  
Phase I Trautwein  
Construction  
(Maps/Spec.)

(Cross-Reference EPN 95-052)

3273 DP

PUNCH LIST

NEWMARK O/U SOUTH PIPELINE SEGMENT 1  
SBMWD SPECIFICATION NO. 1267

May 7, 1997

RECEIVED

MAY 9 1997

STATION  
WORK

1. 4 valve covers (existing) are covered with A.C. in Stoddard Avenue. Remove A.C. and raise covers.
2. Sta 18+20 (Well #2). Valve riser on 12-inch drain from well is cracked. Replace.
3. Sta 27+14. Add valve extension on 16-inch B.F.V. (24-inch pipeline).
4. Sta 42+46. Clean A.C. from bottom of valve can.
5. Sta 32+70. Add valve extensions (2 valves).
6. Sta 38+40. Add valve extensions (2 valves).
7. At 17th Street Plant, add temporary A.C. and raise street to grade.

**LUDWIG ENGINEERING**  
109 East Third Street  
San Bernardino, CA 92410-4801

# LETTER OF TRANSMITTAL

(909) 884-8217  
FAX (909) 889-0153

TO City of San Bernardino  
300 N. "D" ST  
San Bernardino, Ca 92418

DATE	2-20-97	JOB NO.	SB 0736
ATTENTION	Mr. James Dye		
RE:	Mt. View Ave		
	Cut sheets		

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via \_\_\_\_\_ the following items:

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| <input type="checkbox"/> Shop drawings  | <input type="checkbox"/> Prints       | <input type="checkbox"/> Plans | <input type="checkbox"/> Samples | <input type="checkbox"/> Specifications |
| <input type="checkbox"/> Copy of letter | <input type="checkbox"/> Change order | <input type="checkbox"/> _____ |                                  |   |

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3	2/20/97	7	Cut sheets Sta 6+27 to 6+00

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REMARKS \_\_\_\_\_

\_\_\_\_\_

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SIGNED: \_\_\_\_\_

**CITY OF SAN BERNARDINO  
MUNICIPAL WATER DEPARTMENT**

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San Bernardino, California 92418  
(909)384-5391 (909)384-5532 fax  
Contact: James Dye, P.E.

EPA Superfund Project - Newmark OU  
South Plant Pipeline  
Mountain View Avenue, Marshall Blvd., Leroy Street  
Sheet 1 of 20  
February, 1997

PT.#	Station	Plan Elev.	Stake Elev.	Cut	Description / COMMENT
1515	13+50	1088.92	95.67	675	
1514	13+00	1088.35	96.17	7.82	
1513	12+50	1087.78	95.64	7.86	
1512	12+00	1087.21	94.51	7.30	
1511	11+50	1086.64	94.07	7.43	
1510	11+00	1086.07	93.40	7.33	
1509	10+50	1085.50	92.95	7.45	
1508	10+00	1084.93	92.37	7.44	
1507	9+50 GB	1084.36	91.95	7.59	
1506	9+00	1083.50	91.52	8.02	
1505	8+50	1082.64	90.92	8.28	
1504	8+00	1081.78	90.20	8.42	8+00 GB 1081.78 (16")
1503	7+50	1080.92	89.57	8.65	
1502	7+00	1080.06	88.86	8.80	
1501	6+50	1079.20	88.48	9.28	
1500	6+27.55 join	1078.81	88.35	9.54	6+31.55 1080.90 (16")

Mountain View Avenue

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EPA Superfund Project - Newmark OU  
South Plant Pipeline  
Mountain View Avenue, Marshall Blvd., Leroy Street  
Sheet 2 of 20  
February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
1531 20+50	1097.08	05.74	8.66	
30 20+00 GB	1096.33	05.23	8.90	
29 19+50	1095.76	04.46	8.70	
28 19+00	1095.19	03.77	8.58	
27 18+50	1094.62			
26 18+40 LT	24" MJ BFV, BO, 3" CAV			
25 18+00	1094.05	02.30	8.25	
24 17+50	1093.48			
23 17+00	1092.91	00.83	7.92	
22 16+50	1092.34	00.14	7.80	
21 16+00	1091.77	99.39	7.62	
20 15+50	1091.20	98.71	7.51	
19 15+00	1090.63	97.93	7.30	
18 14+50	1090.06	97.05	6.99	
17 14+30 RT.	89.83 16" MJ BFV, BO, 3" CAV	96.84	7.01	
1516 14+00	1089.49	96.55	7.08	

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South Plant Pipeline  
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Sheet 3 of 20  
February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
1548 29+00 GB	1111.77	17.63	5.86	
47 28+50	1110.83	16.85	6.02	
46 28+00	1109.89	16.19	6.30	
45 27+50	1108.95	15.50	6.55	
44 27+00	1108.01	14.74	6.73	
43 26+50	1107.07	14.08	7.01	
42 26+00	1106.13	13.43	7.30	
41 25+50	1105.19	12.73	7.54	
40 25+00	1104.25	11.99	7.74	
39 24+50	1103.31	11.10	7.79	
38 24+00 GB	1102.37	10.26	7.89	
37 23+50	1101.62	09.66	8.04	
36 23+00	1100.86	09.04	8.18	
35 22+50	1100.11	08.31	8.20	
34 22+00	1099.35	07.68	8.33	
33 21+50	1098.60	07.08	8.48	
1532 21+00	1097.84			

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Sheet 4 of 20  
February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
156 37+00	1120.85	28.85	8.00	
64 36+50	1120.27	28.15	7.88	
63 36+00	1119.69	27.42	7.73	
62 35+50	1119.11	26.72	7.61	
61 35+00	1118.53			
60 34+50 GB	1117.95	25.26	7.31	
59 34+00	1116.96	24.52	7.56	
58 33+50	1115.97	23.81	7.84	
57 33+00	1114.98	23.13	8.15	
56 32+70 RT	16" MJ BFV, BO, 2" CAV 19.39	22.73	8.34	
55 32+50	1113.99	22.56	8.57	
54 32+00 GB	1113.00	21.73	8.73	
53 31+50	1112.80	21.00	8.20	
52 31+00	1112.59	20.31	7.72	
51 30+50	1112.39	19.67	7.28	
50 30+00	1112.18	19.00	6.82	
1549 29+50	1111.98	18.31	6.33	

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South Plant Pipeline  
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Sheet 5 of 20  
February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
1582 44+50	1132.74	40.71	7.97	
81 44+42.49 RT	16" MJ 90o Bend 32.62	40.42	7.80	End 16" DL Mtn. View
80 44+00	1131.99	39.85	7.86	
79 43+50	1131.25	39.04	7.79	
78 43+00	1130.50	38.18	7.68	
77 42+50	1129.76	37.39	7.63	
76 42+00	1129.01	36.54	7.53	
75 41+50	1128.27	35.75	7.48	
74 41+00 GB	1127.52	34.77	7.25	
73 40+50	1125.65	33.85	8.20	
72 40+00	1123.77	32.99	9.22	
71 39+50 GB	1121.89	32.28	10.39	
70 39+00	1121.78	31.60	9.82	
69 38+50	1121.66	31.02	9.36	
68 38+40 LT	24" MJ BFV, BO, 3" CAV 21.63	30.85	9.22	
67 38+00	1121.55	30.28	8.73	
1566 37+50 GB	1121.43	29.59	8.16	

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South Plant Pipeline  
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Sheet 6 of 20  
February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
1597 53+00	1145.40	53.55	8.15	
98 52+50	1144.65	52.63	7.98	
97 52+00	1143.91	52.01	8.10	
96 51+50	1143.16	51.31	8.15	
95 51+00	1142.42	50.54	8.12	
94 50+50	1141.67	49.78	8.11	
93 50+00	1140.93	49.13	8.20	
92 49+50	1140.18	48.40	8.22	
91 49+00	1139.44	47.66	8.22	
90 48+50	1138.70	46.89	8.19	
89 48+00	1137.95	46.07	8.12	
88 47+50	1137.21	45.33	8.12	
87 47+00	1136.46	44.55	8.09	
86 46+50	1135.72	43.75	8.03	
85 46+00	1134.97	42.97	8.00	
84 45+50	1134.23	42.23	8.00	
1583 45+00	1133.48	41.43	7.95	

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South Plant Pipeline  
Mountain View Avenue, Marshall Blvd., Leroy Street  
Sheet 7 of 20  
February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
1616 61+00	1158.62	66.36	7.74	
15 60+50	1157.97	65.67	7.70	
14 60+00	1157.32	65.07	7.75	
13 59+50	1156.67	64.40	7.73	
12 59+00 GB	1156.02	63.59	7.57	
11 58+50	1154.99	62.53	7.54	
10 58+40 RT	24" MJ BFV, BQ, CAV 54.79	62.32	7.53	
09 58+00	1153.97	61.72	7.75	
08 57+50	1152.94	60.84	7.90	
07 57+00	1151.92	60.03	8.11	
06 56+50	1150.89	59.20	8.31	
05 56+00 GB	1149.87	58.39	8.52	
04 55+50	1149.12	57.60	8.48	
03 55+00	1148.38	56.77	8.39	
02 54+50	1147.63	55.93	8.30	
01 54+00	1146.89	55.19	8.30	
1600 53+50	1146.14	54.30	8.16	

Mountain View Avenue

## EDC CONSULTANTS

350 WEST FIFTH ST. SUITE 205 SAN ANTONIO TEXAS 78205 ■ (512) 349-1111 ■ FAX (512) 349-0510

Date: 2/11/97

TO:

NAME: James Dye  
COMPANY: Water Dept.  
PHONE #: 384-5391  
FAX: 384-5332  
ADDRESS/CITY/STATE/ZIP:  
# OF PAGES INCLUDING THIS ONE: 23

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**FROM:**

NAME: Randy Croft

COMMENTS:

*If you do not receive all pages, please call back as soon as possible: (909) 381-9916*

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February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
13+50	1088.92			
13+00	1088.35			
12+50	1087.78			
12+00	1087.21			
11+50	1086.64			
11+00	1086.07			
10+50	1085.50			
10+00	1084.93			
9+50 GB	1084.36			
9+00	1083.50			
8+50	1082.64			
8+00	1081.78			
7+50	1080.92			
7+00	1080.06			
6+50	1079.20			
6+27.55 join	1078.81			

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Sheet 2 of 20  
February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
20+50	1097.08			
20+00 GB	1096.33			
19+50	1095.76			
19+00	1095.19			
18+50	1094.62			
18+40 LT	24" MJ BFV, BO, 3" CAV			
18+00	1094.05			
17+50	1093.48			
17+00	1092.91			
16+50	1092.34			
16+00	1091.77			
15+50	1091.20			
15+00	1090.63			
14+50	1090.06			
14+30 RT.	16" MJ BFV, BO, 3" CAV			
14+00	1089.49			

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EPA Superfund Project - Newmark OU

South Plant Pipeline

Mountain View Avenue, Marshall Blvd., Leroy Street

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February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
29+00 GB	1111.77			
28+50	1110.83			
28+00	1109.89			
27+50	1108.95			
27+00	1108.01			
26+50	1107.07			
26+00	1106.13			
25+50	1105.19			
25+00	1104.25			
24+50	1103.31			
24+00 GB	1102.37			
23+50	1101.62			
23+00	1100.86			
22+50	1100.11			
22+00	1099.35			
21+50	1098.60			
21+00	1097.84			

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South Plant Pipeline  
Mountain View Avenue, Marshall Blvd., Leroy Street  
Sheet 4 of 20  
February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
37+00	1120.85			
36+50	1120.27			
36+00	1119.69			
35+50	1119.11			
35+00	1118.53			
34+50 GB	1117.95			
34+00	1116.96			
33+50	1115.97			
33+00	1114.98			
32+70 RT	16" MJ BFV, BO, 2" CAV			
32+50	1113.99			
32+00 GB	1113.00			
31+50	1112.80			
31+00	1112.59			
30+50	1112.39			
30+00	1112.18			
29+50	1111.98			

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Station	Plan Elev.	Stake Elev.	Cut	Description
44+50	1132.74			
44+42.49 RT	16" MJ 90o Bend		End 16" DL Mtn. View	
44+00	1131.99			
43+50	1131.25			
43+00	1130.50			
42+50	1129.76			
42+00	1129.01			
41+50	1128.27			
41+00 GB	1127.52			
40+50	1125.65			
40+00	1123.77			
39+50 GB	1121.89			
39+00	1121.78			
38+50	1121.66			
38+40 LT	24" MJ BFV, BO, 3" CAV			
38+00	1121.55			
37+50 GB	1121.43			

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EPA Superfund Project - Newmark OU

South Plant Pipeline

Mountain View Avenue, Marshall Blvd., Leroy Street

Sheet 6 of 20

February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
53+00	1145.40			
52+50	1144.65			
52+00	1143.91			
51+50	1143.16			
51+00	1142.42			
50+50	1141.67			
50+00	1140.93			
49+50	1140.18			
49+00	1139.44			
48+50	1138.70			
48+00	1137.95			
47+50	1137.21			
47+00	1136.46			
46+50	1135.72			
46+00	1134.97			
45+50	1134.23			
45+00	1133.48			

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South Plant Pipeline  
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February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
61+00	1158.62			
60+50	1157.97			
60+00	1157.32			
59+50	1156.67			
59+00 GB	1156.02			
58+50	1154.99			
58+40 RT	24" MJ BFV, BO, CAV			
58+00	1153.97			
57+50	1152.94			
57+00	1151.92			
56+50	1150.89			
56+00 GB	1149.87			
55+50	1149.12			
55+00	1148.38			
54+50	1147.63			
54+00	1146.89			
53+50	1146.14			

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EPA Superfund Project - Newmark OU  
South Plant Pipeline  
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Sheet 8 of 20  
February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
67+00	1166.61			
66+60 GB	1166.01			
66+50				
66+49.90 EC				
66+03.00 PRC	BO			
66+00 GB	1160.50			
65+69 LT	1" ARV			
65+56.10 BC				
65+50 GB	1164.47			
65+00	1163.82			
64+50	1163.17			
64+00	1162.52			
63+50	1161.87			
63+00	1161.22			
62+50	1160.57			
62+00	1159.92			
61+50	1159.27			

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Sheet 12 of 20  
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Station	Plan Elev.	Stake Elev.	Cut	Description
99+00 GB	1215.05			
98+50	1214.62			
98+40	20" MJ BFV			
98+30 LT	3" CAV, 24"x20" MJ ECC REDUCER, END PIPE			
98+00	1214.19			
97+50	1213.76			
97+00	1213.33			
96+50	1212.90			
96+00 GB	1212.47			
95+50	1211.67			
95+00	1210.88			
94+50	1210.08			
94+00	1209.29			
93+50	1208.49			
93+00	1207.70			
92+50	1206.90			
92+00 GB	1206.11			

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February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
75+00	1180.43			
74+50	1179.66			
74+00 GB	1178.90			
73+50	1177.95			
73+00	1177.00			
72+50	1176.05			
72+00	1175.10			
71+50	1174.15			
71+00	1173.20			
70+50	1172.25			
70+00	1171.30			
69+60 GB	1170.54			
69+50	1170.39			
69+00	1169.63			
68+50	1168.88			
68+00	1168.12			
67+50	1167.37			

Mountain View Avenue

CITY OF SAN BERNARDINO  
MUNICIPAL WATER DEPARTMENT

300 North "D" Street, Fifth Floor  
San Bernardino, California 92418  
(909)384-5391      (909)384-5532 fax  
Contact:      James Dye, P.E.

EPA Superfund Project - Newmark OU  
South Plant Pipeline  
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Station	Plan Elev.	Stake Elev.	Cut	Description
83+00 GB	1191.80			
82+50	1191.18			
82+00	1190.56			
81+50	1189.94			
81+00	1189.32			
80+50	1188.70			
80+00 GB	1188.08			
79+50	1187.31			
79+00	1186.55			
78+50	1185.78			
78+40 LT	24" BFV, BO, 3" CAV			
78+00	1185.02			
77+50	1184.25			
77+00	1183.49			
76+50	1182.72			
76+00	1181.96			
75+50	1181.19			

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Station	Plan Elev.	Stake Elev.	Cut	Description
91+50	1205.31			
91+00	1204.52			
90+50	1203.72			
90+00	1202.93			
89+50	1202.13			
89+00	1201.34			
88+50	1200.54			
88+00	1199.75			
87+50	1198.95			
87+00	1198.16			
86+50	1197.36			
86+00	1196.57			
85+50	1195.77			
85+00	1194.98			
84+50	1194.18			
84+00	1193.39			
83+50	1192.59			

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Station	Plan Elev.	Stake Elev.	Cut	Description
105+00	1221.90			
104+50	1221.48			
104+00	1221.06			
103+50	1220.64			
103+10				24"x20" MJ ECC REDUCER
103+10 GB	1220.30			
102+62 GB	1216.80			
102+52 LT	BO			
102+30				20" MJ BFV
102+30 GB	1218.99			
102+20 LT	CAV			
102+00	1218.63			
101+50	1218.04			
101+00	1217.44			
100+50	1216.85			
100+00	1216.25			
99+50	1215.66			

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Station	Plan Elev.	Stake Elev.	Cut	Description
112+00	1231.07			
111+50	1230.56			
111+00	1230.05			
110+50	1229.54			
110+00	1229.03			
109+50	1228.52			
109+37 GB	1228.39			
109+00	1227.64			
108+63.5	45o MJ BEND			
108+50	1226.62			
108+00	45o MJ BEND			
108+00	1225.61			
107+50	1224.59			
107+00 GB	1223.58			
106+50	1223.16			
106+00	1222.74			
105+50	1222.32			

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Station	Plan Elev.	Stake Elev.	Cut	Description
13+00 RT	CAV			
13+00 GB	1234.03			
12+50	1234.08			
12+00	1234.13			
11+50	1234.18			
11+00	1234.23			
10+50	1234.28			
10+40 join	1234.29			
Marshall Blvd.				
115+16 RT	90o BEND, 3" CAV			
115+16 join	1234.29			
115+00	1234.13			
114+50	1233.62			
114+00	1233.11			
113+50	1232.60			
113+00	1232.09			
112+50	1231.58			
Mountain View Avenue				

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Station	Plan Elev.	Stake Elev.	Cut	Description
19+00	1236.60			
18+50	1235.44			
18+00 GB	1234.28			
17+50	1233.18			
17+00	1232.08			
16+60 GB	1231.20			
16+50	1231.16			
16+10	45o MJ BEND			
16+00	1230.96			
15+87	45o MJ BEND			
15+50	1230.76			
15+40 RT	24" MJ BFV, BO			
15+40 GB	1230.72			
15+00	1231.27			
14+50	1231.96			
14+00	1232.65			
13+50	1233.34			

Marshall Blvd.

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Station	Plan Elev.	Stake Elev.	Cut	Description
27+00	1240.95			
26+50	1240.75			
26+00	1240.55			
25+50	1240.35			
25+00	1240.15			
24+50	1239.95			
24+00	1239.75			
23+50	1239.55			
23+00	1239.35			
22+50	1239.15			
22+00	1238.95			
21+50	1238.75			
21+00	1238.55			
20+50	1238.35			
20+00	1238.15			
19+60 GB	1237.99			
19+50	1237.76			

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Station	Plan Elev.	Stake Elev.	Cut	Description
6+50	1235.35			
6+20 GB	1234.81			
6+00	1234.55			
5+50	1233.91			
5+00	1233.27			
4+50	1232.63			
4+00	1231.99			
3+50	1231.35			
3+15 RT	90o BEND, BO			
3+15	1230.90			
Leroy Street				
29+52	90o BEND			
29+52 join	1241.96			
29+00	1241.75			
28+50	1241.55			
28+00	1241.35			
27+50	1241.15			
Marshall Blvd.				

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Station	Plan Elev.	Stake Elev.	Cut	Description
13+00	1134.22			
12+50	1134.49			
12+00	1134.76			
11+50	1135.03			
10+98.30	16"x16" MJ x FL TEE			
10+98.30 GB	1135.31			
10+50	1133.77			
10+14	1132.62			
17th Street				
10+11	1241.96			
10+00	1241.76			
9+50	1240.84			
9+00	1239.93			
8+50	1239.01			
8+00	1238.10			
7+50	1237.18			
7+00	1236.27			
Leroy Street				



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Station	Plan Elev.	Stake Elev.	Cut	Description
15+02 (49' RT)	90o BEND			
15+02 (49' RT)	1133.60			
15+02	90o BEND			
15+02	1133.68			
14+50	1133.78			
14+00	1133.88			
13+50	1133.98			
13+40 GB	1134.00			
17th Street				